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John L. Rogitz Rogitz & Associates Suite 3120 750 B Street San Diego, CA 92101			EXAMINER CHANNAVAJJALA, SRIRAMA T	
			ART UNIT 2166	PAPER NUMBER
DATE MAILED: 11/02/2006				

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 10/756,123	<b>Applicant(s)</b> GUTSCHE, RALF	
	<b>Examiner</b> Srirama Channavajjala	<b>Art Unit</b> 2166	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 17 August 2006.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-19 and 21-25 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-19 and 21-25 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

**DETAILED ACTION**

***Response to Amendment***

1. Claims 1-19,21-25 are pending in this application.
2. Examiner acknowledges applicant's amendment filed on 8/17/2006.
3. Claims, 1,10-11,19,21-25 have been amended [8/17/2006].
4. Claim 20 has been cancelled [8/17/2006].

***Drawings***

5. The Drawings filed on 1/12/2004 are acceptable for examination purpose.

***Information Disclosure Statement***

6. The information disclosure statement filed on 09/13/2006 is in compliance with the provisions of 37 CFR 1.97, and has been considered and a copy enclosed with this office action.
7. The information disclosure statement filed on 1/12/2004 is in compliance with the provisions of 37 CFR 1.97, and has been considered and a copy was mailed on 08/09/2006

**Claim Rejections - 35 USC § 101**

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

*As set forth in MPEP 2106(II)A:*

*Identify and understand Any Practical Application Asserted for the Invention The claimed invention as a whole must accomplish a practical application. That is, it must produce a “useful, concrete and tangible result.” State Street, 149 F.3d at 1373, 47USPQ2d at 1601-02. The purpose of this requirement is to limit patent protection to inventions that possess a certain level of “real world” value, as opposed to subject matter that represents nothing more than an idea or concept, or is simply a starting point for future investigation or research (Brenner v. Manson, 383 U.S. 519, 528-36, 148 USPQ 689, 693-96); In re Ziegler, 992, F.2d 1197, 1200-03, 26 USPQ2d 1600, 1603-06 (Fed. Cir. 1993)). Accordingly, a complete disclosure should contain some indication of the practical application for the claimed invention, i.e., why the applicant believes the claimed invention is useful.*

*Apart from the utility requirement of 35 U.S.C. 101, usefulness under the patent eligibility standard requires significant functionality to be present to satisfy the useful result aspect of the practical application requirement. See Arrhythmia, 958 F.2d at 1057, 22 USPQ2d at 1036. Merely claiming nonfunctional descriptive material stored in a computer-readable medium does not make the invention eligible for patenting. For example, a claim directed to a word processing file stored on a disk may satisfy the utility requirement of 35 U.S.C. 101 since the information stored may have some “real world” value. However, the mere fact that the claim*

*may satisfy the utility requirement of 35 U.S.C. 101 does not mean that a useful result is achieved under the practical application requirement. The claimed invention as a whole must produce a "useful, concrete and tangible" result to have a practical application.*

8. Regarding claim 1, "A graphical user interface (GUI) for configuring pipelines, the GUI displayable on a user computer monitor and stored on a computer memory and comprising: at least one pipe input set window configured to permit a user to define a type of pipe input set data; at least one GUI page based on the type, the GUI page being generated by translating the type using a configuration file to a class and using Java reflection to generate an instance of the class, the instance producing the GUI page" is directed to "abstract idea" because all of the elements in the claim 1 would reasonably be interpreted by one of ordinary skill in light of the disclosure particularly pages 1-26 as software code, such that the graphical user interface (GUI) for configuring pipelines is software, per se, is "non-statutory subject matter" and **claim 1** do not have "practical application" because the "final result" by the claimed invention in the claim 1 elements particularly "at least one GUI page based on the type, the GUI page being generated by translating the type using a configuration file to a class and using Java reflection to generate an instance of the class, the instance producing the GUI page" is not producing "useful, tangible and concrete" and therefore, claim 1 is a non-statutory subject matter, is merely software code or algorithm, is not producing "useful, tangible and concrete" and therefore, claim 1 is a non-statutory subject matter[see Interim Guidelines page 55-57].

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The claimed invention is subject to the test of State Street, 149 F.3d at 1373-74, 47 USPQ2d at 1601-02. Specifically State Street sets forth that the claimed invention must produce a ***“useful, concrete and tangible result.”*** The **Interim Guidelines for Examination of Patent Applications for Patent Subject Matter Eligibility** states in section IV C. 2 b. (2) (on page 21 in the PDF format):

The tangible requirement does not necessarily mean that a claim must either be tied to a particular machine or apparatus or must operate to change articles or materials to a different state or thing. However, the tangible requirement does require that the claim must recite more than a § 101 judicial exception, in that the process claim must set forth a practical application of that § 101 judicial exception to produce a real-world result. Benson, 409 U.S. at 71-72, 175 USPQ at 676-77 (invention ineligible because had “no substantial practical application.”).

[If] Claim 1 have the result of producing results related to “at least one GUI page based on the type, the GUI page being generated by translating the type using a configuration file to a class and using Java reflection to generate an instance of the class, the instance producing the GUI page” however the claim limitation[s] does not output useful, concrete result.

The claims 1-9 dependent from claim 1 is also rejected in the above analysis.

9. Regarding claim 10, “A computer system including graphical user interface (GUI) for a pipeline architecture, the GUI being stored on a computer-readable medium, comprising: means for generating and modifying pipelines without writing any JAVA code apart from an initial core code” is directed to “abstract idea” because all of the

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elements in the claim 1 would reasonably be interpreted by one of ordinary skill in light of the disclosure particularly pages 1-26 as software code, or routines based on software modules such that the graphical user interface (GUI) for configuring pipelines is software, per se, is "non-statutory subject matter" and **claim 10** do not have "practical application" because the "final result" by the claimed invention in the claim 10 particularly "means for determining, based on parameters of the means for determining, whether a first tuple in a data store is required for processing, and if so, processing the tuple and otherwise not processing the tuple, wherein in the event that the means for determining requires additional data, the means for determining requests a tuple specifying required content/condition" elements is not producing, useful, and concrete" and therefore, claim 10 is a non-statutory subject matter.

The claimed invention is subject to the test of State Street, 149 F.3d at 1373-74, 47 USPQ2d at 1601-02. Specifically State Street sets forth that the claimed invention must produce a **"useful, concrete and tangible result."** The **Interim Guidelines for Examination of Patent Applications for Patent Subject Matter Eligibility** states in section IV C. 2 b. (2) (on page 21 in the PDF format):

The tangible requirement does not necessarily mean that a claim must either be tied to a particular machine or apparatus or must operate to change articles or materials to a different state or thing. However, the tangible requirement does require that the claim must recite more than a § 101 judicial exception, in that the process claim must set forth a practical application of that § 101 judicial exception to produce a real-world result. Benson, 409 U.S. at 71-72, 175 USPQ at 676-77 (invention ineligible because had "no substantial practical application.").

The examiner reviewed the specification pages 1-26 but was unable to find a practical real-world use of the result (***means for determining, based on parameters of the means for determining, whether a first tuple in a data store is required for processing, and if so, processing the tuple and otherwise not processing the tuple, wherein in the event that the means for determining requires additional data, the means for determining requests a tuple specifying required content/condition" elements is not producing"***). If the applicant is able to find one and inserts it into the claims provide the location the element is found in the specification.

The claims 11-18 dependent from claim 10 is also rejected in the above analysis.

10. Regarding claim 19, "A computer-implemented method for generating a pipeline for processing data from at least one data store stored in a computer storage, comprising: presenting a main GUI window; using the main GUI window to access an initial core code; using the main GUI window to access at least one subsequent GUI window; and using the at least one subsequent GUI window to configure the pipeline at least in part" is directed to "abstract idea" because all of the elements in the claim 19 would reasonably be interpreted by one of ordinary skill in light of the disclosure particularly pages 1-26 as software code, or software routines such that the generating a pipeline for processing data is software, per se, is "non-statutory subject matter" and ***claim 19*** do not have "practical application" because the "final result" by the claimed



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invention in the claim 19 elements particularly 'using the main GUI window to access at least one subsequent GUI window; and using the at least one subsequent GUI window to configure the pipeline at least in part, wherein the main GUI window is at least one pipe input set window configured to permit a user to define a type of pipe input set data, at least one GUI page based on the type being configurable" is not producing "useful, and concrete" and therefore, claim 19 is a non-statutory subject matter.

The examiner reviewed the specification pages 1-26 but was unable to find a practical real-world use of the result (***using the main GUI window to access at least one subsequent GUI window; and using the at least one subsequent GUI window to configure the pipeline at least in part, wherein the main GUI window is at least one pipe input set window configured to permit a user to define a type of pipe input set data, at least one GUI page based on the type being configurable"***).

If the applicant is able to find one and inserts it into the claims provide the location the element is found in the specification.

The claims 21-25 dependent from claim 19 is also rejected in the above analysis.

It is further noted that there is no full description or details regarding hardware or physical media, but merely suggests fig 1, data store contains raw data records and pipeline communicates with the processing modules...[spec page 6]

As to claim 10, the preamble as amended [8/17/2006] is directed to "A computer-system including a graphical user interface (GUI) for a pipeline architecture, the GUI being stored on a computer-readable medium" however, it is noted that **specification does not teach "computer-readable medium"** of any kind including drawing fig 1- 21. although fig 1, merely, showing element 16 pipemodule 1...M processing, element 18 is storage ... Therefore, claim 10-17 does not have **"computer-readable medium"** support from the specification.

As to claim 1,19 the preamble as amended [8/17/2006] computer memory,... [claim 1], stored in a computer storage....[claim 19], however, it is noted that **specification does not have support "computer memory"; "computer storage"**

**For "General Analysis for Determining Patent-Eligible Subject Matter", see 101 Interim Guidelines as indicated below.**

**<<<http://www.uspto.gov/web/offices/pac/dapp/ogsheet.html>>>**

***No new matter should be entered***

***Claim Rejections - 35 USC § 112***

11. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

12. Claims 1, 10, 19 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

13. As to claim 1, the preamble reads "A graphical user interface (GUI) for configuring pipelines, the GUI displayable on a user computer monitor and stored on a computer memory.... "computer memory" is neither described, nor have support from the specification, although fig 1 merely suggests various modules but not any hardware.

14. As to claim 10, the preamble reads "a computer system including a graphical user interface (GUI) for a pipeline architecture, the GUI being stored on a computer-readable medium" "computer-medium" is neither described, nor have support from the specification, although fig 1, merely suggests various modules for example "pipemodule mean 1.....along with other elements.

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15. As to claim 19, the preamble reads "A computer-implemented method for generating a pipeline for processing data from at least one data store stored in a computer storage", it is noted that "computer storage" is neither defined nor have support from the specification, although fig 1 merely suggests various modules but not hardware

16. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

17. As to claim 1,10,19, it is unclear what is meant by "computer memory", "computer-readable medium" and "computer storage", although fig 1, page 6 merely suggests various modules, but not having support for computer memory, computer readable medium and like.

18. It is not clear whether all or part of the claim 11-17 functional or non-functional language because claim 10 is specifically directed to "means....." and claim 18 depend from claim 10 is also directed to "means for....."

Appropriate correction is required in response to this office action

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

***19. Claims 1-9, are rejected under 35 U.S.C. 103(a) as being unpatentable over***

***Drawschwandtner et al. [hereafter Drawschwandtner], US Publication No. 20030210275 published on Nov. 13, 2003 in view of Broussard et al. [hereafter Broussard], US Pub. No. 2003/0159130***

**20.** As to claim 1, Drawschwandtner teaches a system which including 'A graphical user interface (GUI) for configuring pipelines' [see Abstract, fig 2, page 1, 0011], graphical user interface corresponds to Drawschwandtner's fig 2; pipelines corresponds to software modules generated for specific applications using software tools as detailed in page 1, col 2, 0011; the GUI displayable on a user computer monitor and stored on a computer memory' [fig 2] and comprising: at least one pipe input set window configured to permit-a user to define a type of pipe input set data' [page 2, col 1, 0017, line 1-5, page 2, col 2, 0020], Drawschwandtner specifically teaches menu GUI menu allows command line options that allows users to define input as detailed in page 2, col 2, 0020 ; at least one GUI page based on the type, the GUI page being generated by translating the type using a configuration file to a class [page 6, col 1, line 1-3], Drawschwandtner specifically teaches GUI module configured to generate user's

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selection of commands and using 'the instance producing the GUI page' [page 3, col 1, 0025]. It is however, noted that Drawswandtner does not specifically teaches 'Java reflection', although Drawswandtner specifically teaches C and C++ language structure [page 2, col 1, 0018] On the other hand, Broussard disclosed Java reflection' [see Abstract, page 1, col 1, 0007], Broussard specifically teaches Java reflection API calls in software development.

It would have been obvious to one of the ordinary skill in the art at the time of Applicant's invention to incorporate the teachings of Broussard et al. into extensible command-line description mechanism for activating external tools of Drawswandtner because both Drawswandtner and Broussard are specifically directed to software development particularly generating software modules [see Broussard: page 3, col 2, 0040-0041; Drawswandtner: page 1, col 2, 0010], and both Broussard, Drawswandtner specifically teaches "user interface or GUI used for various commands [see Broussard: fig 1, Drawswandtner" fig 2, Abstract], and both Broussard, Drawswandtner suggests C++ software modules [see Broussard: page 4, col 2, 0052, line 6-11; Drawswandtner: page 2, col 1, 0018, line 2-7] and both specifically teach creating software modules using user interface.

One of the ordinary skill in the art at the time of Applicant's invention to incorporate the teachings of Broussard et al. into extensible command-line description mechanism for activating external tools of Drawswandtner because that would have

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allowed users of Drawswandtner to implement Java objects, particularly Java reflection API using software development wizard, further as the flexibility to manipulate Java classes, i.e., manipulating properties for example Java class to obtain the names of all its members and display them while it is not possible in typical C or C++, therefore, improving software applications useful in programming environment [page 1, 0015-0016].

21. As to claim 2, Drawswandtner disclosed 'wherein at least the pipe input set window and GUI page require no programming apart from an initial core code' [page 3, col 1, 0023].

22. As to claim 3, Drawswandtner disclosed 'wherein the GUI is an incremental GUI wherein GUI pages for new pipe components can be added incrementally without changing existing code' [page 4, col 2, 0037].

23. As to claim 4, Drawswandtner disclosed 'wherein at least one new pipe module is based on a pre-existing module type' [page 4, col 2, 0035].

24. As to claim 5, Drawswandtner disclosed 'wherein at least one new pipe module is based on a new user-defined component type' [page 5, col 1, 0039, line 13-20].

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25. As to claim 6, Drawschwandtner disclosed 'wherein the GUI defines a set of interfaces, each interface including plural functions' [page 2, col 1, 0017, line 1-5], the GUI including a GUI representation part and a storage part, the GUI representation part defining how something is displayed and the storage part defining how GUI parameters are stored in an external storage' [page 2, col 2, 0020].

26. As to claim 7, Drawschwandtner disclosed 'at least one Pipe Output Set tab for defining PipeOutputSet representative of a type of output data from the pipeline' [page 4, col 1, 0031].

27. As to claim 8, Drawschwandtner disclosed 'at least one Storage For TupleSets tab for defining an arbitrary number of elements contained in a StorageForTupleSets component of the pipeline, individual input and output sets being definable for each element in the component' [page 3, 0025, page 4, 0036, fig 2].

28. As to claim 9, Drawschwandtner disclosed 'at least one Pipe Modules tab for defining an arbitrary number of PipeModules of the pipeline, a type being selected for each PipeModule using the tab, the type defining at least in part the GUI' [page 4, 0035].



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**29. *Claims 10-19, 21-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Drawswandtner et al. [hereafter Drawswandtner], US Pub No. 2003/0210275 published on Nov 13, 2003 in view of Simonoff et al. [hereafter Simonoff], US Patent No. 6054983***

30. As to claim 10, Drawswandtner teaches a system which including 'means for generating and modifying Pipelines without writing any JAVA code apart from an initial core code' [Abstract, page 4, col 1, 0032, fig 2], Drawswandtner specifically teaches software tool particularly commands and options are selected from the graphical user interface menu as detailed in fig 2, further it is noted that software modules are developed using C++, or C compiler languages [page 2, 0018, col 2, line 2-6], pipelines corresponds to software modules as detailed in Abstract., although Drawswandtner suggests generator module and interface module that constructs "code" usable for specific operations [page 4, col 2, 0035].

It is however, noted that Drawswandtner does not specifically suggest "means for determining, based on parameters of the means for determining, whether a first tuple in a data store is required for processing, and if so, processing the tuple and otherwise not processing the tuple, wherein in the event that the means for determining requires additional data the means for determining requests a tuple specifying required content/condition'. On the other hand, Simonoff disclosed means for determining, based on parameters of the means for determining, whether a first tuple in a data store is required for processing [col 13, line 33-41], and if so, processing the tuple and

otherwise not processing the tuple, wherein in the event that the means for determining requires additional data the means for determining requests a tuple specifying required content/condition [col 13, line 50-63].

It would have been obvious to one of the ordinary skill in the art at the time of applicant's invention to incorporate the teachings of Simonoff into extensible command-line description mechanism for activating external tools of Draschwandtner et al. because both Draschwandtner and Simonoff are directed to GUI related modules, more specifically, Draschwandtner teaches "user interface or GUI used for various commands [see Broussard: fig 1, Draschwandtner" fig 2, Abstract], while Simonoff suggests GUI script defining the GUI on both server, network protocols, and communication between server and client computers [see Abstract, col 14, line 17-26]

One of the ordinary skill in the art at the time of applicant's invention to incorporate the teachings of Simonoff into extensible command-line description mechanism for activating external tools of Draschwandtner et al. because that would have allowed users of Draschwandtner to use GUIScript message and to the application servers that requires to determining the data and conditions that is suitable for application running on the server computer, subsequently used by the universal devices in generating a refreshed GUI as suggested by Simonoff [col 13, line 59-63], bringing the advantages of computer architecture that is independent of generating and displaying a graphic user interface on client computer connected to a server computer

particularly storing scripts that defining respective GUI objects as suggested by Simonoff [col 5, line 50-63].

31. As to claim 11, Drawschwandtner disclosed at least one pipe input set window configured to permit-a user to define a type of pipe input set data' [page 2, col 1, 0017, line 1-5, page 2, col 2, 0020], Drawschwandtner specifically teaches menu GUI menu allows command line options that allows users to define input as detailed in page 2, col 2, 0020 ; at least one GUI page based on the type, the GUI page being generated by translating the type using a configuration file to a class [page 6, col 1, line 1-3], Drawschwandtner specifically teaches GUI module configured to generate user's selection of commands and using 'the instance producing the GUI page' [page 3, col 1, 0025]. It is however, noted that Drawschwandtner does ot specifically teaches 'Java reflection', although Drawschwandtner specifically teaches C and C++ language structure [page 2, col 1, 0018]

32. As to claim 12, Drawschwandtner disclosed 'wherein at least the pipe input set window and GUI page require no programming apart from an initial core code' [page 3, col 1, 0023].

33. As to claim 13, Drawschwandtner disclosed 'wherein the GUI is an incremental GUI wherein GUI pages for new pipe components can be added incrementally without changing existing code' [page 4, col 2, 0037].

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34. As to claim 14, 22, Drawschwandtner disclosed 'wherein the GUI defines a set of interfaces, each interface including plural functions' [page 2, col 1, 0017, line 1-5], the GUI including a GUI representation part and a storage part, the GUI representation part defining how something is displayed and the storage part defining how GUI parameters are stored in an external storage' [page 2, col 2, 0020].

35. As to claim 15, Drawschwandtner disclosed 'at least one Pipe Output Set tab for defining PipeOutputSet representative of a type of output data from the pipeline' [page 4, col 1, 0031].

36. As to claim 16, Drawschwandtner disclosed 'at least one Storage For TupleSets tab for defining an arbitrary number of elements contained in a StorageForTupleSets component of the pipeline, individual input and output sets being definable for each element in the component' [page 3, 0025, page 4, 0036, fig 2].

37. As to claim 17, Drawschwandtner disclosed 'at least one Pipe Modules tab for defining an arbitrary number of PipeModules of the pipeline, a type being selected for each PipeModule using the tab, the type defining at least in part the GUI' [page 4, 0035].

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38. As to claim 18, Drawschwandtner disclosed 'means for making available new pipeline module types without writing any JAVA code apart from an initial core code' [page 5, col 1, 0038, line 1-8, 0039].

39. As to claim 19, Drawschwandtner teaches a system which including 'presenting a main GUI window' [fig 2, page 4, 0038, line 1-2], Drawschwandtner specifically teaches user interface or GUI as detailed in fig 2;

'using the main GUI window to access an initial core code' page 4, col 2, 0037, fig 2];

'using the main GUI window to access at least one subsequent GUI window' [page 5, col 1, 0041];

using the at least one subsequent GUI window to configure the pipeline at least in part' [page 5, col 2, 0042],, although Drawschwandtner suggests generator module and interface module that constructs "code" usable for specific operations [page 4, col 2, 0035], 'main GUI window is at least one pipe input set window configured to permit a user to define' [Abstract, page 2, col 1, 0017, line 1-10] pipelines corresponds to software modules as detailed in Abstract.

It is however, noted that Drawschwandtner does not specifically teach " at least one GUI page based on the type being configurable'. On the other hand, Simonoff disclosed 'at least one GUI page based on the type being configurable ' [see Abstract, col 11, line 8-20].

It would have been obvious to one of the ordinary skill in the art at the time of applicant's invention to incorporate the teachings of Simonoff into extensible command-line description mechanism for activating external tools of Draschwandtner et al. because both Draschwandtner and Simonoff are directed to GUI related modules, more specifically, Draschwandtner teaches "user interface or GUI used for various commands [see Broussard: fig 1, Draschwandtner" fig 2, Abstract], while Simonoff suggests GUI script defining the GUI on both server, network protocols, and communication between server and client computers [see Abstract, col 14, line 17-26]

One of the ordinary skill in the art at the time of applicant's invention to incorporate the teachings of Simonoff into extensible command-line description mechanism for activating external tools of Draschwandtner et al. because that would have allowed users of Draschwandtner to use GUIScript message and to the application servers that requires to determining the data and conditions that is suitable for application running on the server computer, subsequently used by the universal devices in generating a refreshed GUI as suggested by Simonoff [col 13, line 59-63], bringing the advantages of computer architecture that is independent of generating and displaying a graphic user interface on client computer connected to a server computer particularly storing scripts that defining respective GUI objects as suggested by Simonoff [col 5, line 50-63].

40. As to claim 21, Drawswandtner disclosed 'generating the GUI page by translating the type using a configuration file to a class' [page 1, col 2, 0010]; 'using Java reflection to generate an instance of the class, 'the instance producing the GUI page' [fig 2]. It is however, noted that Drawswandtner does not specifically teaches 'Java reflection', although Drawswandtner specifically teaches C and C++ language structure [page 2, col 1, 0018] . On the other hand, Simonoff disclosed 'Java Reflections" [col 10, line 65-67, col 13, line 6-10].

41. As to claim 23, Drawswandtner disclosed 'defining a representative of a type of output data from the pipeline' [page 3, 0023].

42. As to claim 24-25, Drawswandtner defining an arbitrary number of elements contained in a component of the pipeline, individual input and output sets being definable for each element in the component' [page 3, 0023-0024].

***Response to Arguments***

43. Applicant's arguments filed on 8/17/2006 with respect to claims 1-19,21-25 have been fully considered but they are not persuasive, for examiner's response, see discussion below:

a) Claims 1-19,21-25 have been rejected under 35 USC 101 because there is no full description or details regarding hardware or physical media, but merely suggests fig 1 data store contains raw data records and pipeline communicates with the processing modules...[spec page 6]

As to claim 10, the preamble as amended [8/17/2006] is directed to "A computer-system including a graphical user interface (GUI) for a pipeline architecture, the GUI being stored on a computer-readable medium" however, it is noted that **specification does not teach "computer-readable medium"** of any kind including drawing fig 1- 21. although fig 1, merely, showing element 16 pipemodule 1...M processing, element 18 is storage ... Therefore, claim 10-17 does not have "**computer-readable medium**" support from the specification.

As to claim 1,19 the preamble as amended [8/17/2006] computer memory,.. [claim 1], stored in a computer storage....[claim 19], however, it is noted that **specification does not have support "computer memory"; "computer storage**



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Therefore, applicant's remarks at page 9 are deemed not to be persuasive, and claims 1-19,21-25 are rejected under 35 USC 101.

b) In accordance with applicant's arguments at page 9-10, claim 10, In view of applicant's amendment to claim 10, examiner rejected claims under 35 U.S.C. 103(a) as being unpatentable over Draschwandtner et al. [US Pub No. 2003/0210275 published on Nov 13, 2003 in view of Simonoff et al, US Patent No. 6054983 as detailed above.

c) At page 10, claim 19, applicant argues that "applicant notes that the examiner has not provided a claim construction for "data type" to aid applicant in understand the basis of the rejection...

As to the above argument [c], as best understood by the examiner, programming languages such as C or C++[Draschwandtner et al. page 2, col 2, 0018, line 4, page 3, col 2, line 4], require the programmer to declare the data type of every data object, and most systems require the user to specify the type of each data field, further the available data types vary from one programming language to another, and from one application to another at least fundamental aspect of data type, therefore, "data type" is integral part of at least Draschwandtner and Simonoff because both are specifically suggests "programming languages" [Simonoff: col 2, line 42-46, Java programming language], furthermore, it is noted that pipe input set window configured to permit a user

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to define' [Abstract, page 2, col 1, 0017, line 1-10] pipelines corresponds to software modules as detailed in Abstract.

d) At page 11, claim 1, applicant argues that "paragraph 25 teaches that Java reflection can be used to generate GUIs in what appears to be an object-oriented programming (OOP) environment, ref(a) does not appear to be such an environment.

e) At page 11, claim 1, applicant argues that it does not appear in the relied upon sections of ref(b) that Java reflection is used to undertake the specific task recited in claim 1....

As to the above argument [d-e], it is noted that Drawschwandtner does not specifically teaches 'Java reflection', although Drawschwandtner specifically teaches C and C++ language structure [page 2, col 1, 0018] . On the other hand, Broussard disclosed Java reflection' [see Abstract, page 1, col 1, 0007], Broussard specifically teaches Java reflection API calls in software development. As best understood by the examiner, Java Reflection is a feature in the Java programming language, it allows an executing Java program "introspect" upon itself, and manipulate internal properties of the program, for example, it's possible for a Java class to obtain the names of all its members and display them, furthermore, the ability to examine and manipulate a Java class from within itself while other programming languages such as Pascal, C, or C++ this feature simply doesn't exist., therefore, it would have been obvious to one of the ordinary skill in the art at the time of applicant's invention to incorporate the teachings of

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Broussard et al. into extensible command-line description mechanism for activating external tools of Drawschwandtner et al. because that would have allowed users of Drawschwandtner to use "java Reflection" feature in order to obtain the names of all its members from the data structure, also generate an instance of class .

### ***Conclusion***

#### ***The prior art made of record***

- |    |                     |              |
|----|---------------------|--------------|
| a. | US Publication. No. | 2003/0210275 |
| b. | US Patent No.       | 6668284.     |
| c. | US Publication. No  | 20030159130  |
| d. | US Patent No.       | 6054983      |

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Srirama Channavajjala whose telephone number is 571-272-4108. The examiner can normally be reached on Monday-Friday from 8:00 AM to 5:30 PM Eastern Time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Alam, Hosain, T, can be reached on (571) 272-3978. The fax phone numbers for the organization where the application or proceeding is assigned is 571-273-8300 Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free)

sc  
*Patent Examiner.*  
October 30, 2006.

  
**SRIRAMA CHANNAVAJJALA**  
**PRIMARY EXAMINER**